

10 Greatest product in Grid

This assignment is a variation of a problem from Project Euler. You are required to find the greatest product of four adjacent numbers in the same direction (horizontal, vertical, or diagonal) in a grid of positive integers.

You will read your input from the file `grid.txt`. The first line indicates n the dimension of the grid. The dimension of the grid will be much larger than 4. This will be followed by n lines of data. Each line of data will have n positive integers.

You will have a single line of output:

```
The greatest product is 70600674.
```